

### **REMARKS**

Applicants appreciate the Examiner's thorough consideration provided the present application. Claims 8, 10-23 and 25-27 are now present in the application. The specification, drawings and claims 8, 14 and 19 have been amended in this Reply. Claims 8, 14 and 19 are independent. Reconsideration of this application is respectfully requested.

### **Specification and Drawings**

The specification and drawings have been amended to clarify the present invention. Applicants respectfully submit that no new matter is entered. Entry of the above amendments to the specification and drawings is earnestly solicited.

### **Claim Rejections Under 35 U.S.C. § 102**

Claims 8, 10-23 and 25-27 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Amou, U.S. Patent No. 5,957,659. This rejection is respectfully traversed.

In light of the foregoing amendments, Applicants respectfully submit that this rejection has been obviated and/or rendered moot. Without conceding to the propriety of the Examiner's rejection, but merely to timely advance the prosecution of the application, as the Examiner will note, independent claims 8, 14 and 19 have been amended.

Independent claim 8 now recites a combination of elements including "a centrifugal fan including a rotary shaft, a motor and a plurality of blades; a heat sink, including a plurality of first cooling fins and a plurality of second cooling fins located at the same plane as the first cooling fins, wherein an annular cavity is defined between the first cooling fins and the second

cooling fins, and the second cooling fins include a lower portion; and a cover formed on the heat sink and the centrifugal fan; wherein the motor for driving the rotary shaft is mounted below the cover and away from the heat sink, the blades are located in the cavity and extended toward a bottom of the heat sink, and there is a distance between the rotary shaft and the second cooling fins so that the entire rotary shaft is located above the lower portion of the second cooling fins, and the rotary shaft is positioned away from the lower portion of the second cooling fins.”

Independent claim 14 recites a combination of elements including “a heat sink, including a plurality of first cooling fins and a plurality of second cooling fins located at the same plane as the first cooling fins, wherein a cavity is defined between the first cooling fins and the second cooling fins, and the second cooling fins include a lower portion; a cover connected to the heat sink and having corners directly contacted to the first cooling fins; and a centrifugal fan including a rotary shaft, a motor and a plurality of blades disposed around the hub, wherein the motor for driving the rotary shaft is mounted below the cover and away from the heat sink, the blades are located in the cavity and extended beyond a top surface of the heat sink, the entire rotary shaft is located above the lower portion of the second cooling fins, and the rotary shaft is positioned toward the cover to be away from the lower portion of the second cooling fins.”

Independent claim 19 recites a combination of elements including “a heat sink, including a plurality of first cooling fins and a plurality of second cooling fins located at the same plane as the first cooling fins, wherein a cavity is defined between the first cooling fins and the second cooling fins, and the second cooling fins include a lower portion; a centrifugal fan having an axial direction and a radial direction and including a rotary shaft, a motor and a plurality of blades; and a cover, including a plurality of inlets, mounted onto said heat sink and said

centrifugal fan, wherein air from ambient is flowed in the axial direction of the centrifugal fan into the heat sink from the inlets of the cover, and is flowed in the radial directions of the centrifugal fan and out of the heat sink; wherein the motor for driving the rotary shaft is mounted below the cover and away from the heat sink, the blades are located in the cavity and extended toward a bottom of the heat sink, and there is a distance between the rotary shaft and the second cooling fins so that the entire rotary shaft is located above the lower portion of the second cooling fins, and the rotary shaft is positioned away from the lower portion of the second cooling fins.”

Applicants respectfully submit that the above combinations of elements as set forth in independent claims 8, 14 and 19 is not disclosed nor suggested by the reference relied on by the Examiner.

In particular, Amou in FIG. 7 discloses an axial fan disposed on a heat sink 301. The fan comprises a motor 305 and a plurality of blades 306. The heat sink 301 has a base 302 and a plurality of fins 303, wherein the circumference of the fins 303 provided in the central portion of the base 302 is lower than that of the fins 303 provided in the peripheral portion thereof. The blades 306 extend radially from the motor 305 toward the fins 303 of the heat sink 301, not toward the base 302 of the heat sink 301. Therefore, Amou fails to teach that “the blades are located in the cavity and extended toward a bottom of the heat sink” as recited in claims 8 and 19, and “the blades are located in the cavity and extended beyond a top surface of the hub” as recited in claim 14.

Since Amou fails to teach each and every limitation of independent claims 8, 14 and 19, Applicants respectfully submit that claims 8, 14 and 19 and their dependent claims (at least due to their dependency) clearly define over the teachings of Amou. Accordingly, reconsideration and withdrawal of the rejection under 35 U.S.C. § 102 are respectfully requested.

### **CONCLUSION**

It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact Cheng-Kang (Greg) Hsu, Registration No. 61,007 at (703) 205-8000 in the Washington, D.C. area.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), Applicants respectfully petition for a one (1) month extension of time for filing a response in connection with the present application.


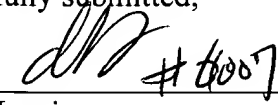
Application No. 09/930,990  
Amendment dated November 23, 2009  
After Final Office Action of July 22, 2009

Docket No.: 0941-1282PUS1

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Dated: November 23, 2009

Respectfully submitted,

By   #61,007  
Paul C. Lewis  
Registration No.: 43,368  
BIRCH, STEWART, KOLASCH & BIRCH, LLP  
8110 Gatehouse Road  
Suite 100 East  
P.O. Box 747  
Falls Church, Virginia 22040-0747  
(703) 205-8000  
Attorney for Applicant

Cheng-Kang Hsu  
Reg. No. 61,007

**Attachment: One (1) Replacement Sheet**